



APICAL INDUSTRIES, INC.  
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO. 05878 SHEET 1 OF 1  
DWG NO. 649.4800 REV: D PREPARED BY J. BECKER DATE: 11/21/17 EFFECT ON DWG  
☐ INC. ☒ UNINC.

DWG TITLE: SHEETMETAL

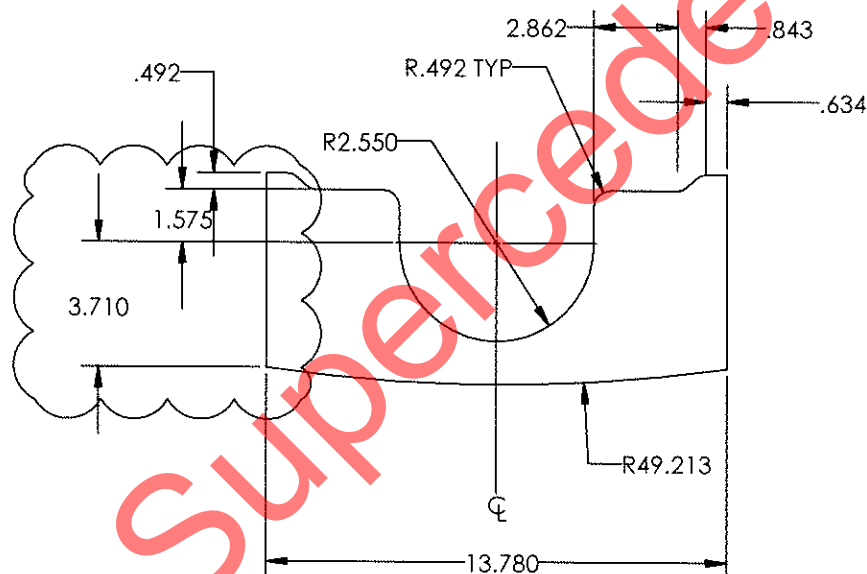
APPROVED BY: ENGR *[Signature]* MFG *[Signature]* QC *[Signature]* EFF. CURRENT ORDER

TRANSACTION CODES (TC):  
A-ADD C-CREATE  
R-REVISE D-DELETE

REASON: REVISED DIMENSION OF DOUBLER. ECR: N/A

ACTION ITEM:  
1. PROVIDE  
UPDATED  
DRAWING TO  
HAWKESBURY

**SHEET 5, ZONE C1 IS:**

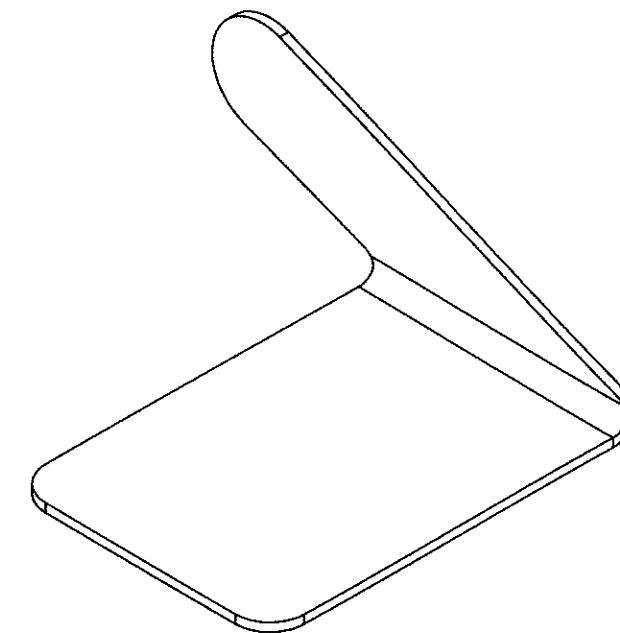


F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL	SPECIFICATION
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED
<input type="checkbox"/> PATTERN <input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUCTIONS <input type="checkbox"/> ICA <input type="checkbox"/> FMS <input type="checkbox"/> BOM					<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

NOTES: UNLESS OTHERWISE SPECIFIED

- 1 MATERIAL: ALUMINUM 2024-T3 PER AMS-QQ-A-250/4
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;  
PRETREAT PR-148 ADHESION PROMOTER, PRIME IAW MIL-P-23377J, TYPE I, CLASS N
3. DEBURR AND BREAK ALL SHARP EDGES
4. IDENTIFY IAW MPP-120. LASER ETCH P/N AND REVISION 12PT. CENTURY GOTHIC. R.3
- 5 PART DIMENSIONS CONTROLLED BY CAD MODEL; FILE NAME: 649.4816 DOUBLER.SLDPRT
6. INSPECTION DIMENSIONS SHOWN WITH FINISH APPROX. 3-5 MIL MAX PER FACE.






















REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION, PR2		
N/C	INITIAL RELEASE	11-02-11	P. BRAVO
A	INCORPORATED ECN 03475	04-11-12	P. BRAVO
B	INCORPORATED ECN 05502	07-28-16	P. BRAVO
C	INCORPORATED ECN 05801	07-26-17	P. BRAVO
D	INCORPORATED ECN 05848, 05854	09-11-17	P. BRAVO




649.4811

UNINCORPORATED ECN(S)

05879

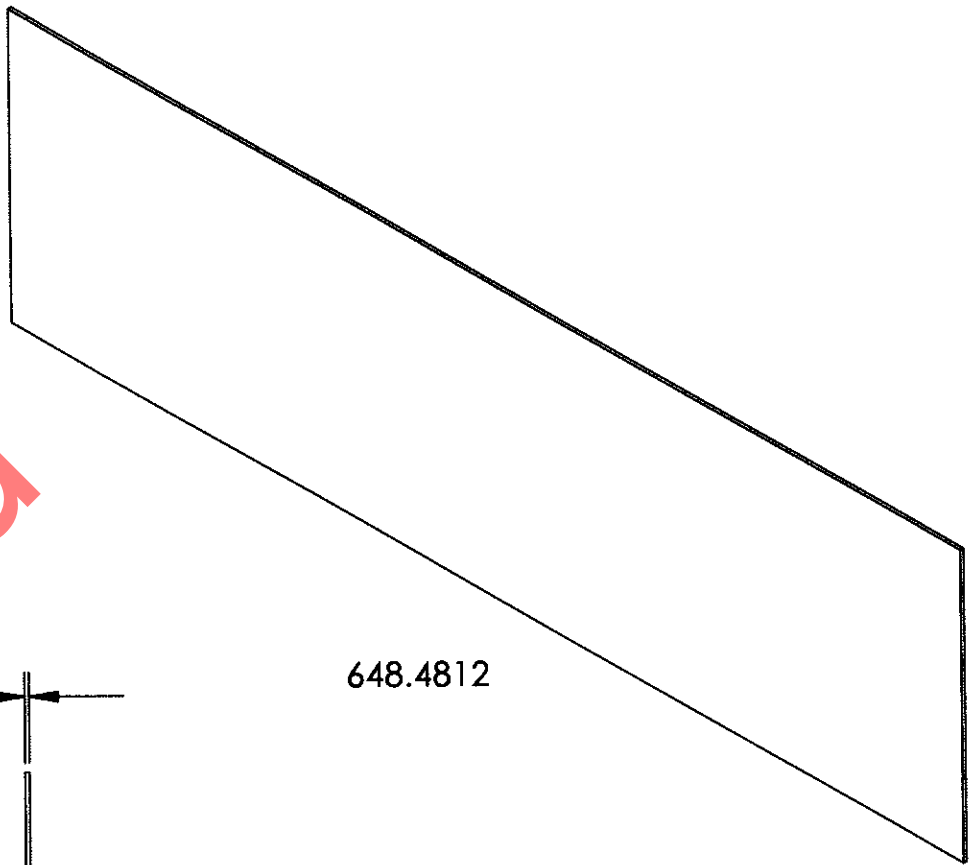
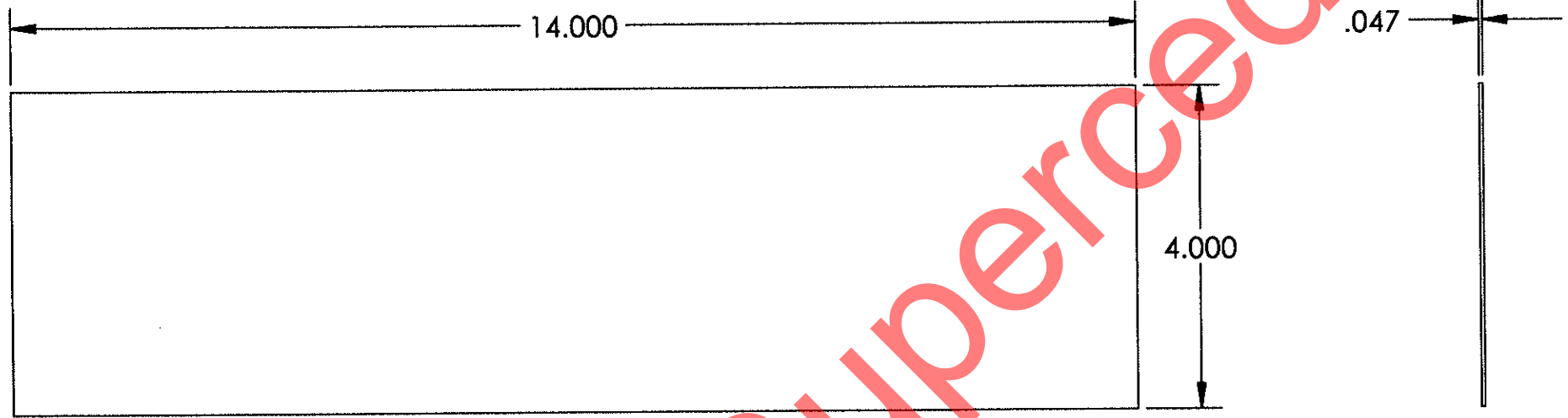
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		10	649.4819	SHIM		
		9	649.4818	SHIM		
		8	649.4817	SHIM		
		7	649.4816	DOUBLER		 
		6	649.4815	SHIM		
		5	649.4814	DOUBLER		
		4	649.4813	SHIM		
		3	649.4812	SHIM		
		2	649.4811	CLIP		
		1		DELETED		
		FIND #	PART #	DESCRIPTION	MAT'L	SPEC

QTY		ORIGINAL DATE (MO-DA-YR)		PARTS LIST			
NEXT ASSY (S)		11-02-11		 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300			
649.4700		DRAWN BY A. QUAN CHECKER P. BRAVO					
		DRAWING APPROVAL P. BRAVO 11-02-11 CONTRACT No.		APICAL INDUSTRIES, INC. dba DART AEROSPACE			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.010 ANGLES ±.5°		SHEETMETAL			
				SIZE		CAGE CODE	DWG. NO.
				B		07MZ6	649.4800
				SCALE NONE		REV D	
						SHEET 1 OF 2	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

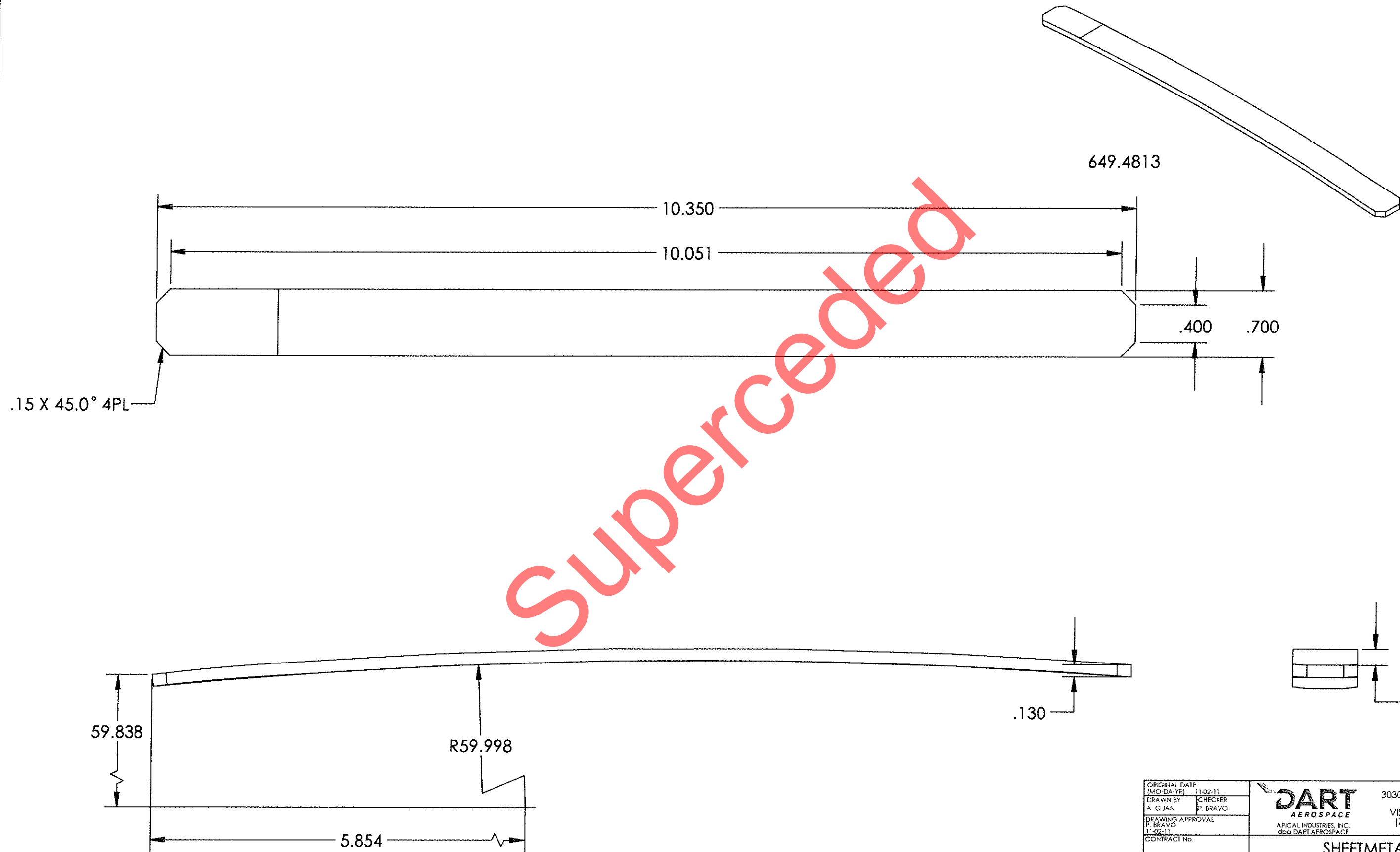
A  
B  
C  
D

1 2 3 4 5 6 7 8



ORIGINAL DATE (MO-DA-YR) 11-02-11		<b>DART</b> AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY A. QUAN	CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO 11-02-11		SHEETMETAL			
CONTRACT NO.		SIZE B	CAGE CODE 07MZ6	DWG. NO. 649.4800	REV. D
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.010 ANGLES ±.5°		SCALE NONE		SHEET 2 OF 8	

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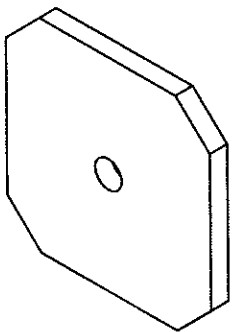
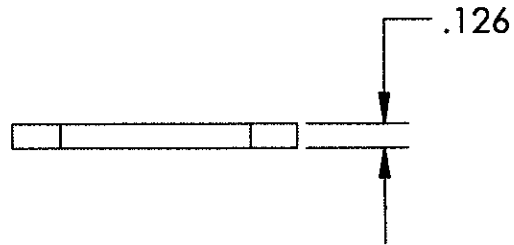


ORIGINAL DATE (MO-DA-YR) 11-02-11		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY A. QUAN	CHECKER P. BRAVO	DART AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE	
DRAWING APPROVAL P. BRAVO 11-02-11		SHEETMETAL	
CONTRACT No.		SCALE NONE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.010 ANGLES ±.5°		SIZE B	REV. D
CAGE CODE 07MZ6	DWG. NO. 649.4800	SHEET 3 OF 8	

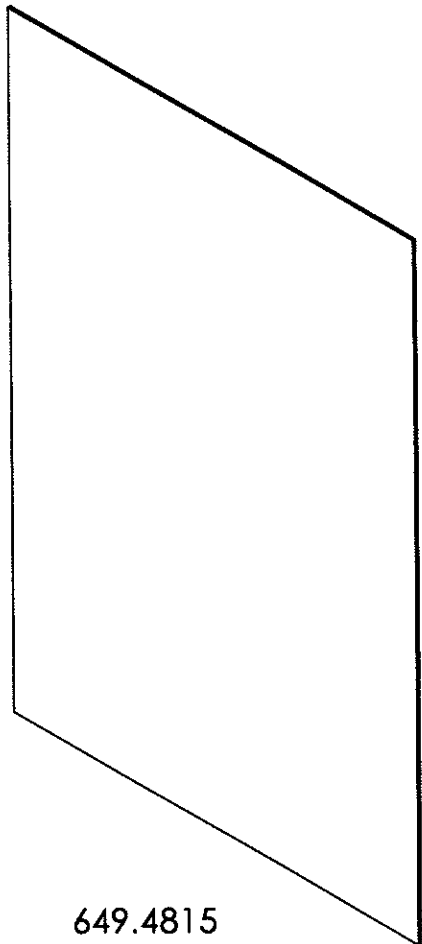
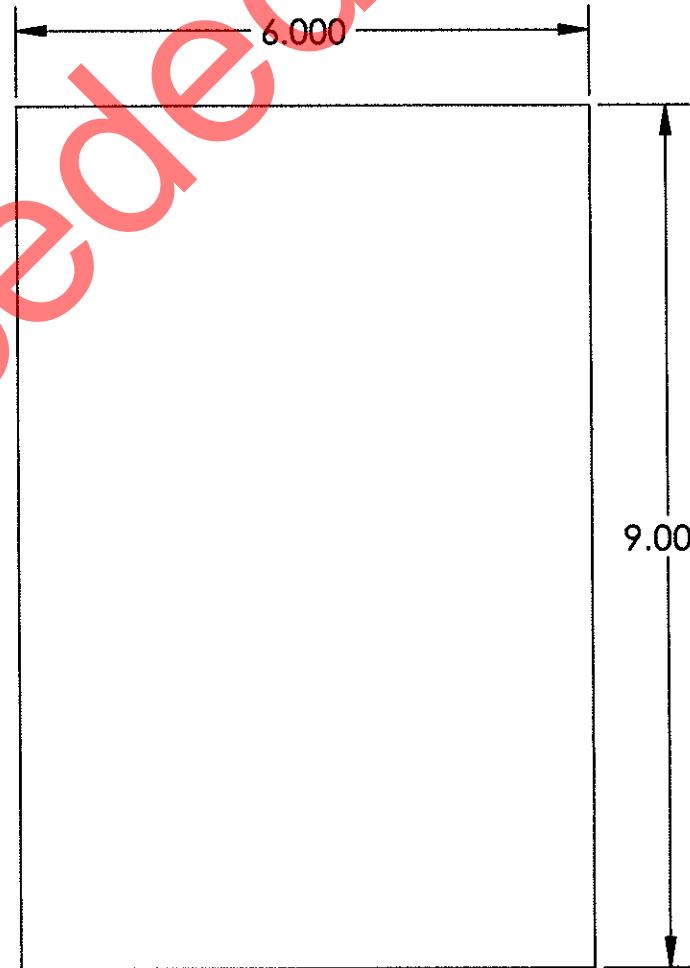
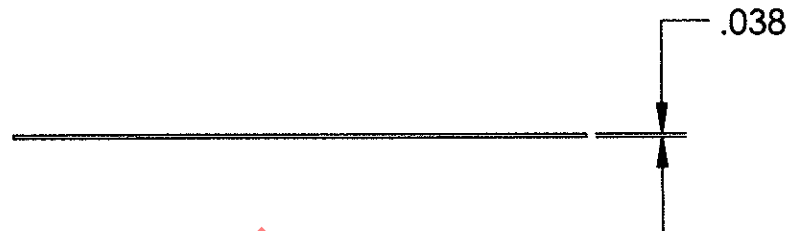
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

A  
B  
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D

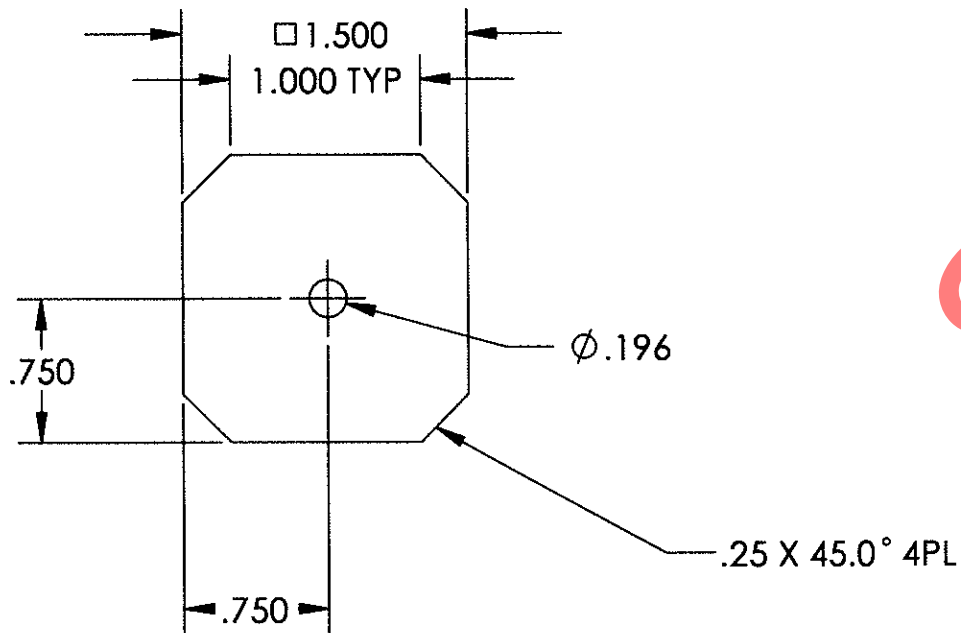
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649.4814



649.4815



Superseded

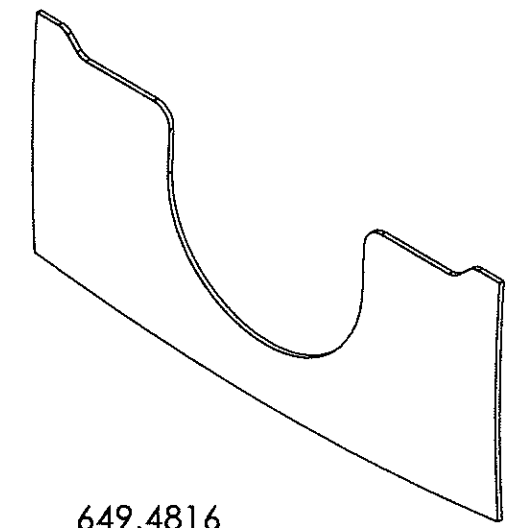
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DRAWN BY A. QUAN  
CHECKER P. BRAVO  
DRAWING APPROVAL  
P. BRAVO  
11-02-11  
CONTRACT No.

**DART**  
AEROSPACE  
APICAL INDUSTRIES, INC.  
dba DART AEROSPACE  
3030 ENTERPRISE CT.,  
SUITE A  
VISTA, CA, 92081  
(760)-724-5300

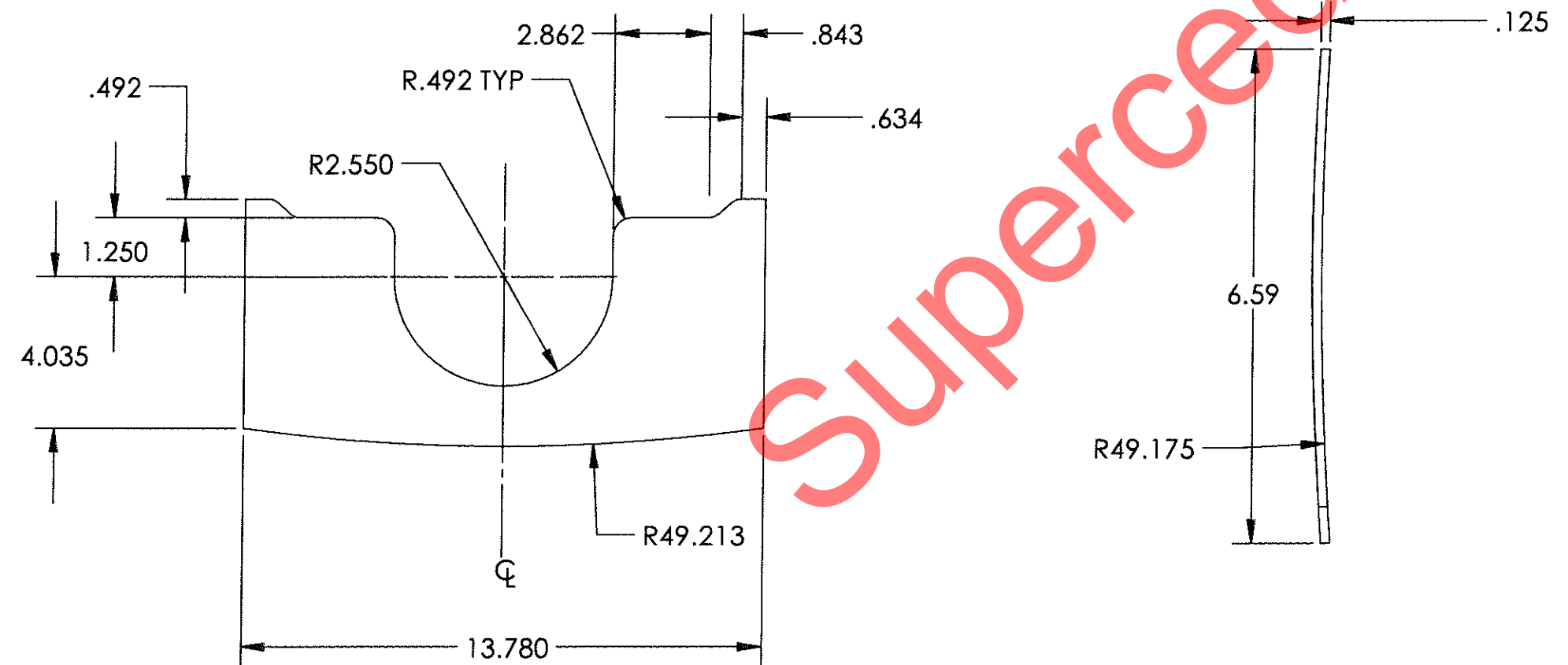
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS ±.03  
3 PLACE DECIMALS ±.010  
ANGLES ±.5°

SHEETMETAL  
SIZE B CAGE CODE 07MZ6 DWG. NO. 649.4800 REV. D  
SCALE NONE SHEET 4 OF 8

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649.4816



ORIGINAL DATE (MO-DA-YR) 11-02-11		<b>DART</b> AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY A. QUAN				CHECKER P. BRAVO	
DRAWING APPROVAL P. BRAVO 11-02-11		CONTRACT No.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.010 ANGLES ±.5°		SHEETMETAL			
SIZE B	CAGE CODE 07MZ6	DWG. NO. 649.4800	REV. D		
SCALE NONE			SHEET 5 OF 8		

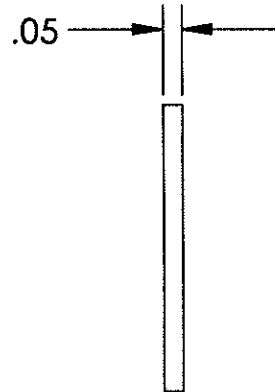
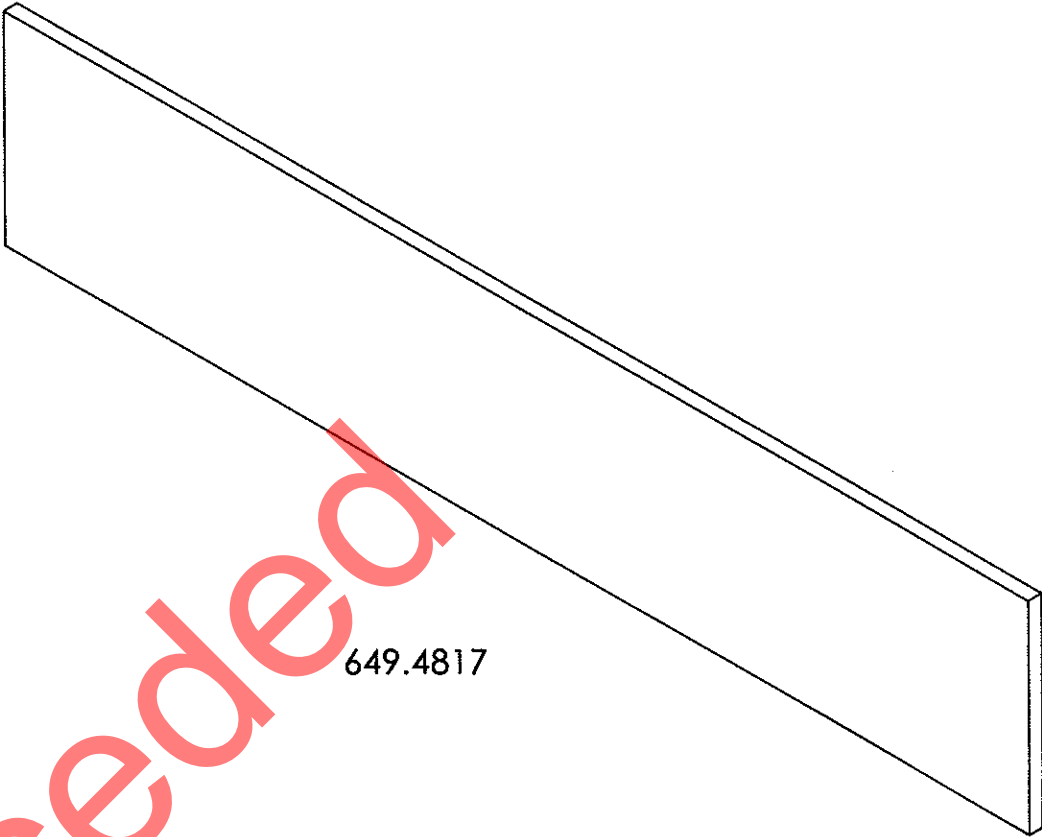
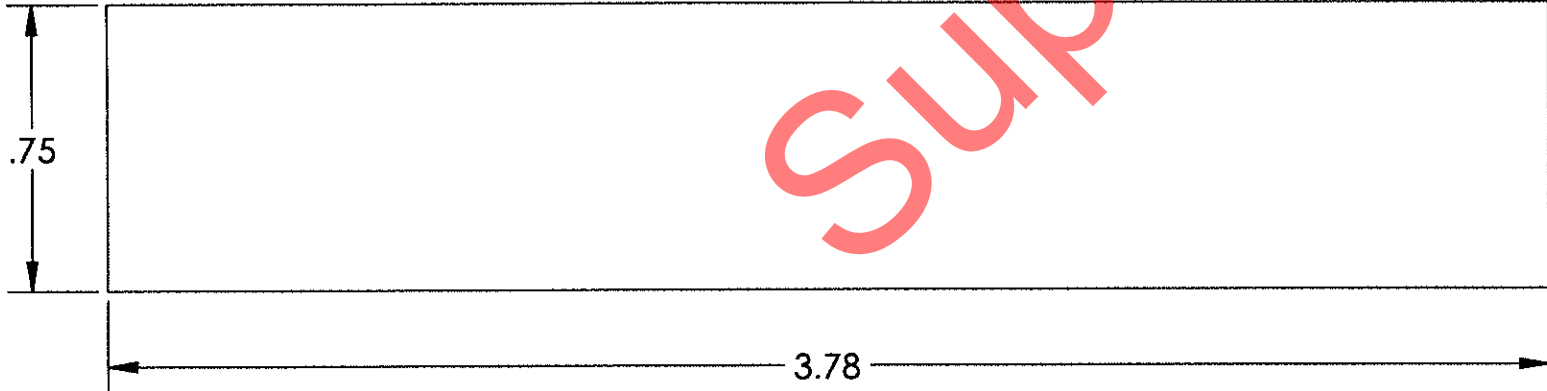
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A

B

C

D



ORIGINAL DATE  
(MO-DA-YR) 11-02-11  
DRAWN BY  
A. QUAN  
CHECKER  
P. BRAVO  
DRAWING APPROVAL  
P. BRAVO  
11-02-11  
CONTRACT No.

**DART**  
AEROSPACE  
APICAL INDUSTRIES, INC.  
dba DART AEROSPACE  
3030 ENTERPRISE CT.,  
SUITE A  
VISTA, CA. 92081  
(760)-724-5300

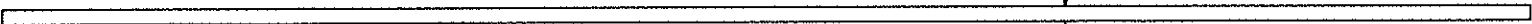
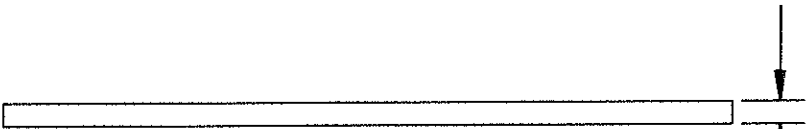
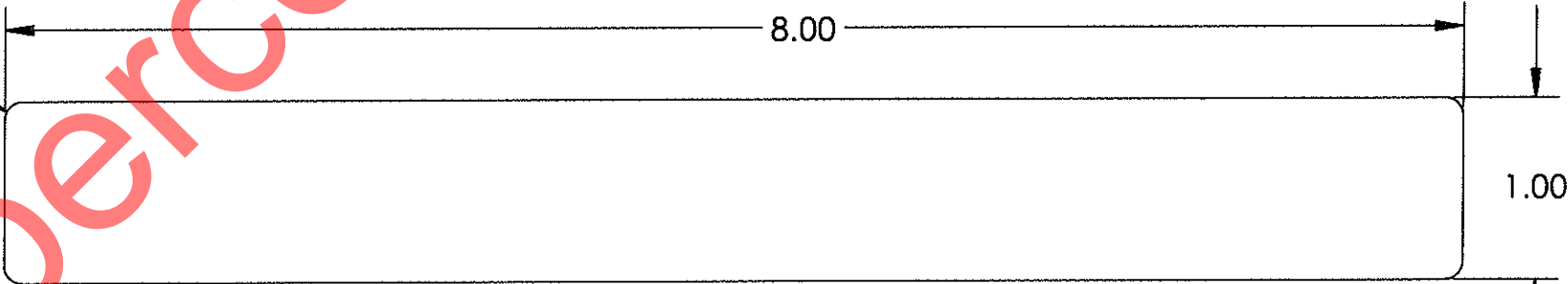
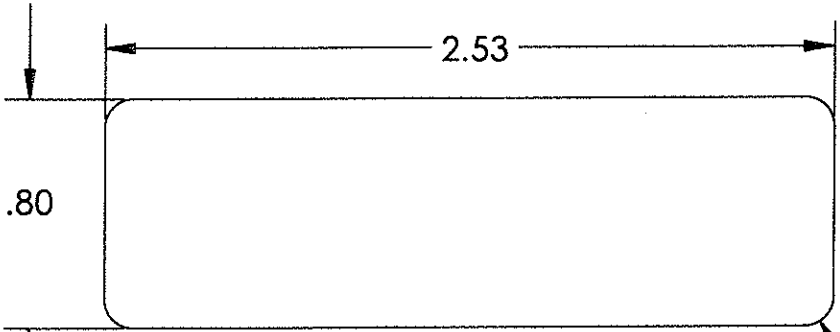
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS  $\pm .03$   
3 PLACE DECIMALS  $\pm .010$   
ANGLES  $\pm .5^\circ$

SIZE B	CAGE CODE 07MZ6	DWG. NO. 649.4800	REV. D
SCALE NONE			SHEET 6 OF 8

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649.4818

649.4819



ORIGINAL DATE  
(MO-DA-YR) 11-02-11  
DRAWN BY A. GUAN  
CHECKER P. BRAVO  
DRAWING APPROVAL  
P. BRAVO  
11-02-11  
CONTRACT NO.

**DART**  
AEROSPACE  
APICAL INDUSTRIES, INC.  
dba DART AEROSPACE

3030 ENTERPRISE CT.,  
SUITE A  
VISTA, CA. 92081  
(760)-724-5300

SHEETMETAL

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS  $\pm .03$   
3 PLACE DECIMALS  $\pm .010$   
ANGLES  $\pm .5^\circ$

SIZE B

CAGE CODE 07M26

DWG. NO.

649.4800

REV.

D

SCALE NONE

SHEET 7 OF 8



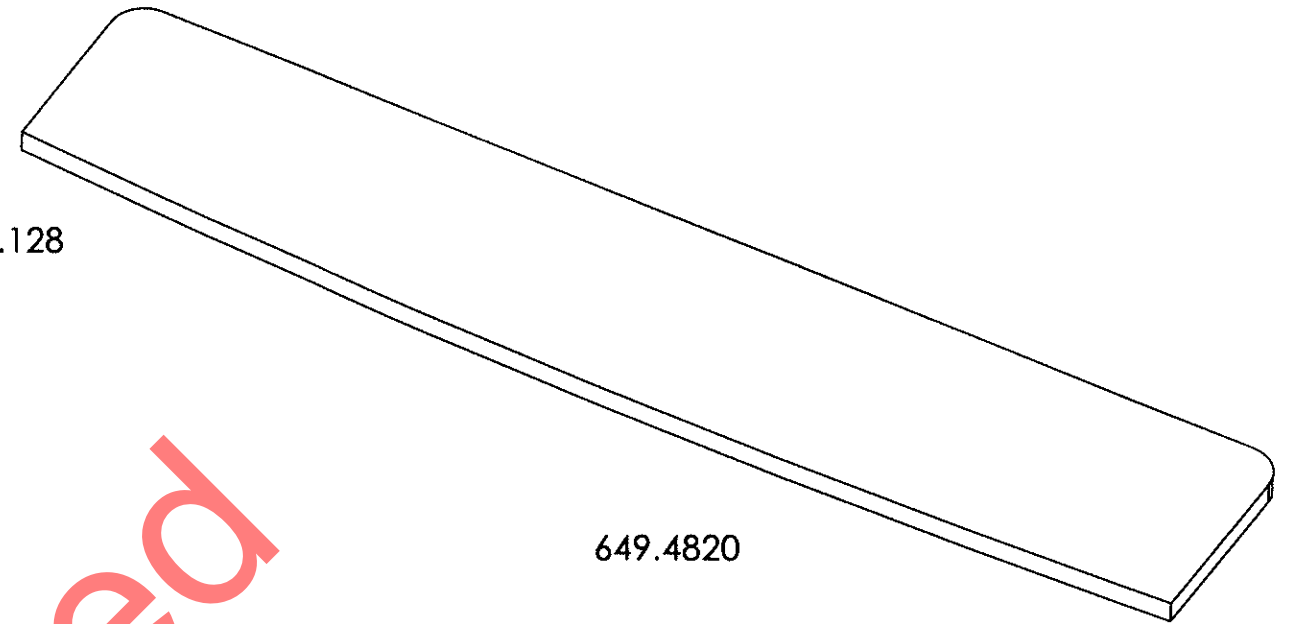
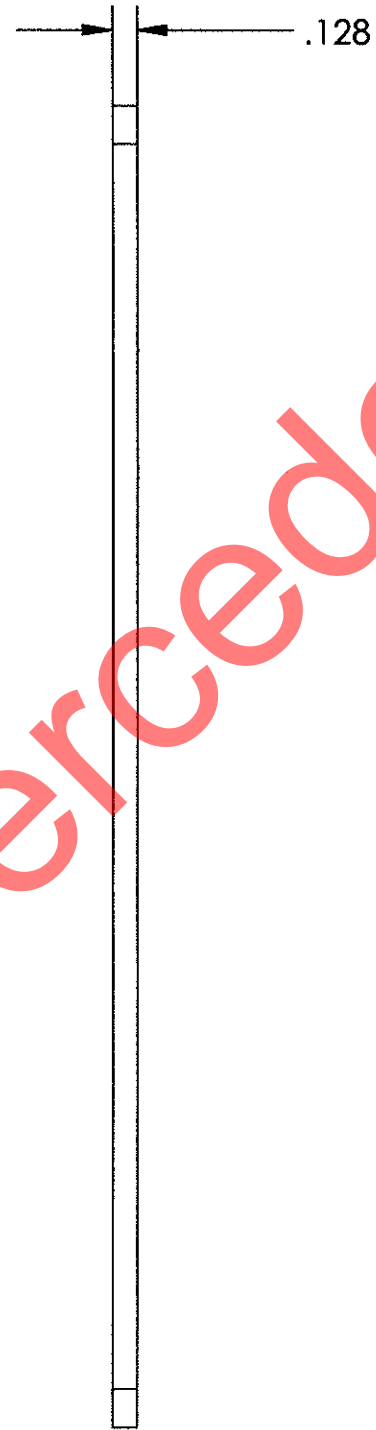
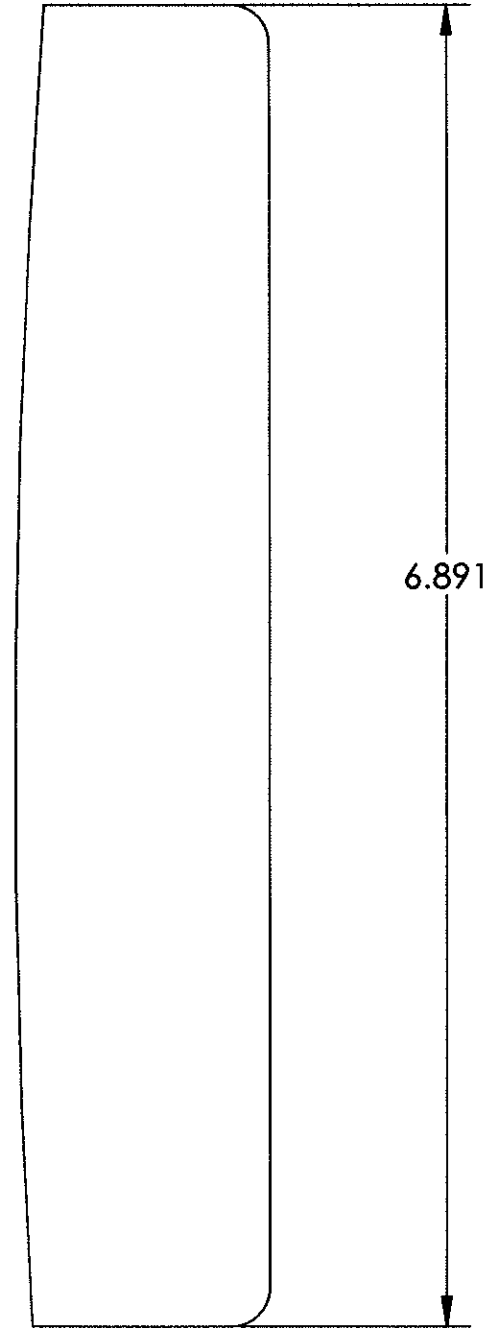
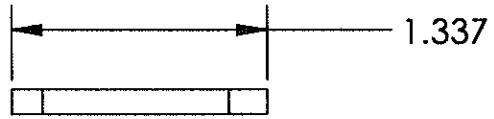
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A

B

C

D



Superseded

ORIGINAL DATE (MO-DA-YR) 11-02-11		<b>DART</b> 3030 ENTERPRISE CT., AEROSPACE SUITE A APICAL INDUSTRIES, INC. VISTA, CA. 92081 dba DART AEROSPACE (760)-724-5300	
DRAWN BY A. QUAN	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 11-02-11		SHEETMETAL	
CONTRACT No.		SIZE B	REV. D
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		CAGE CODE 07MZ6	DWG. NO. 649.4800
		SCALE NONE	SHEET 8 OF 8